Figure 1

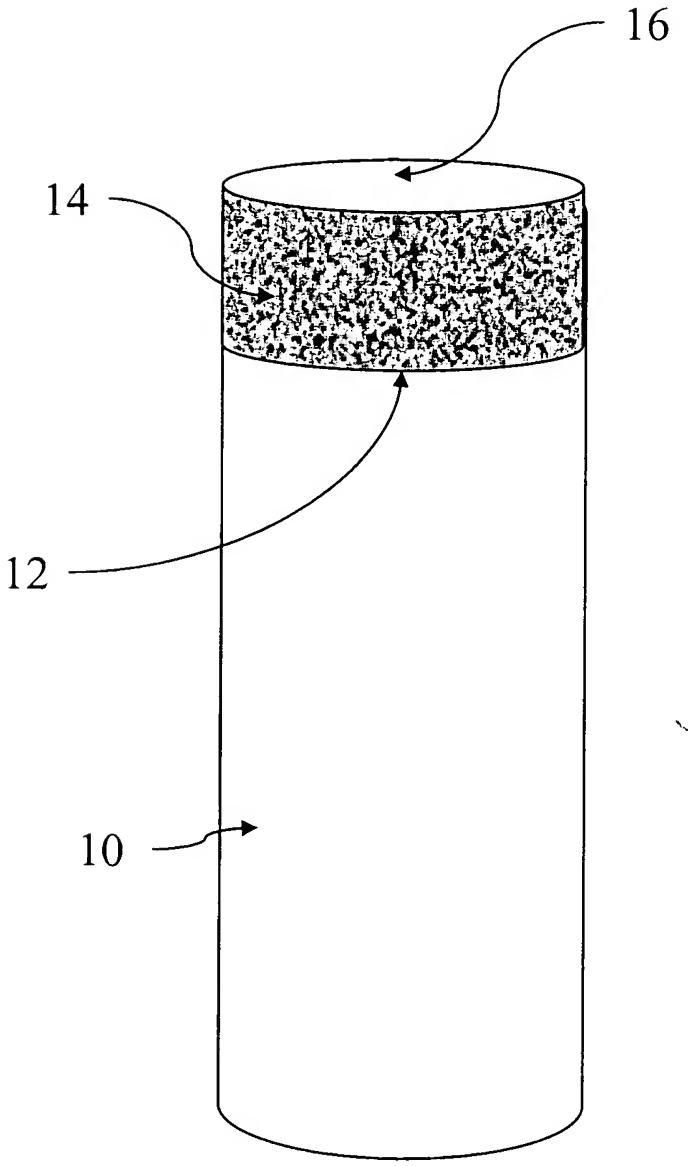

Figure 2

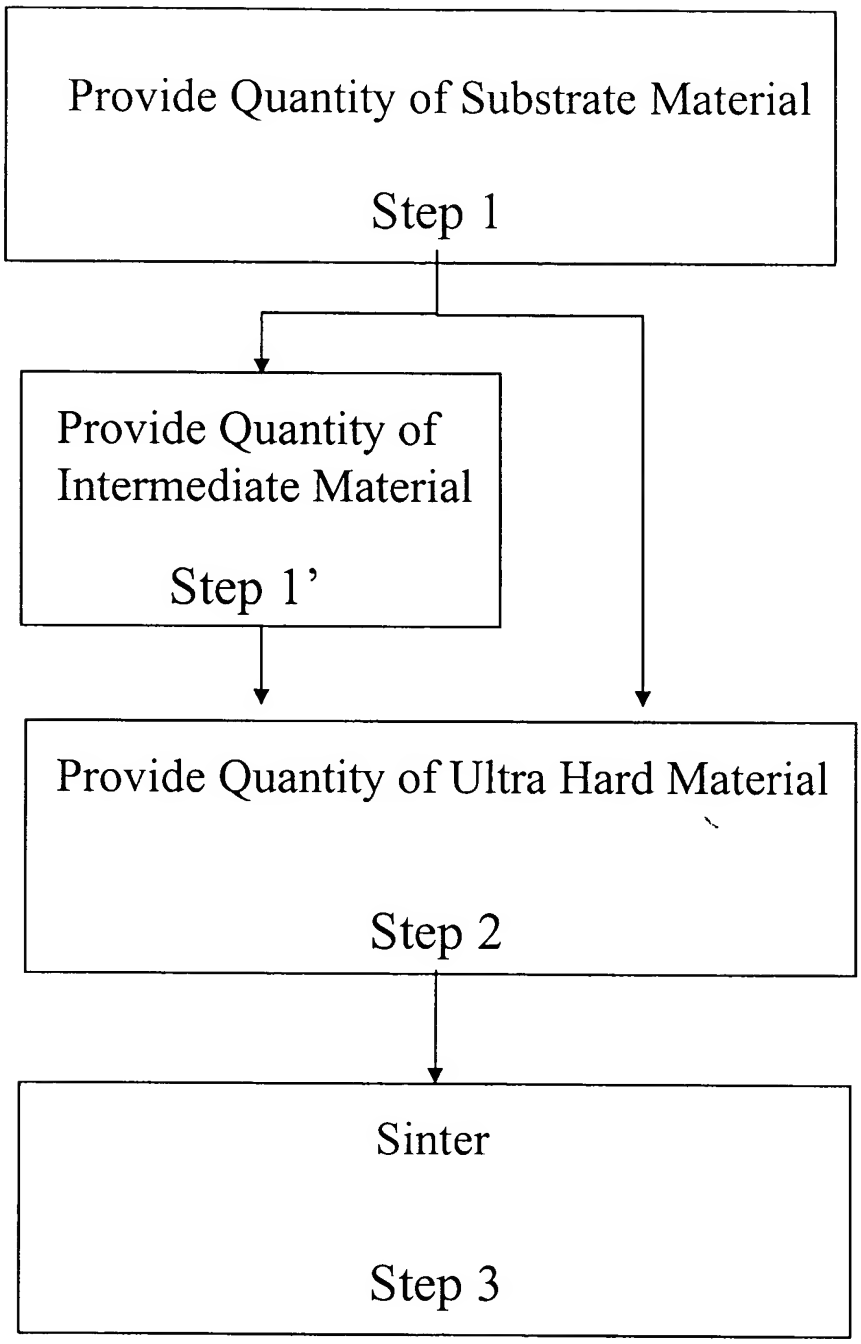
Provide Quantity of Substrate Material
Step 1
Provide Quantity of Intermediate Material
Step 1'
Provide Quantity of Ultra Hard Material
Step 2
Sinter
Step 3

Figure 3a

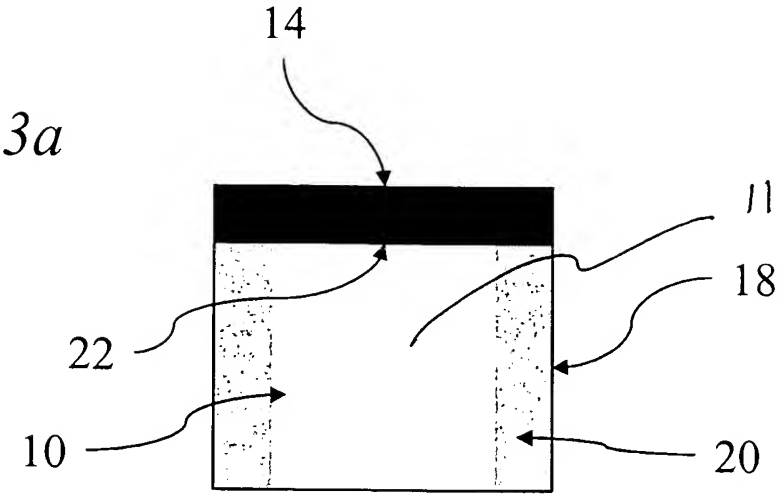

Figure 3b

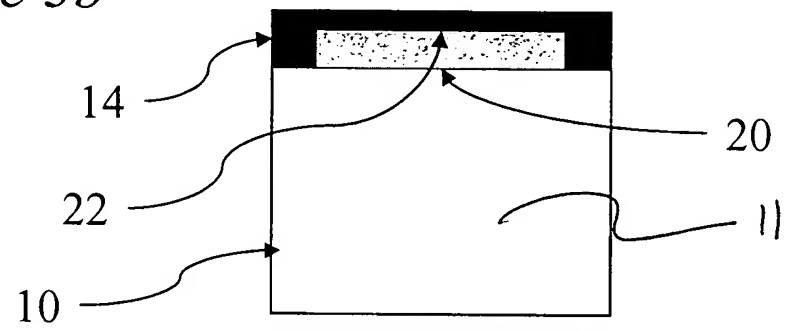

Figure 3c

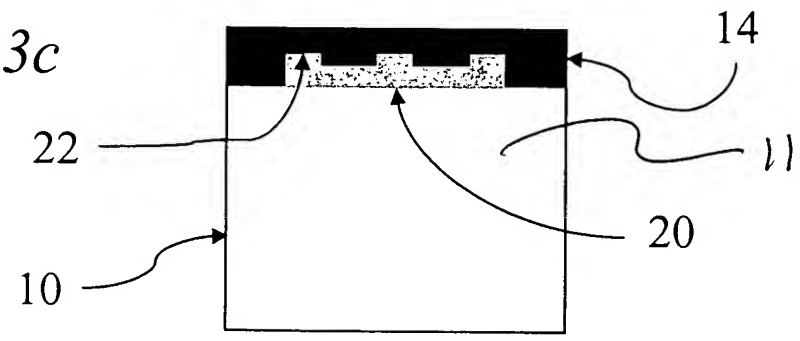

Figure 4a

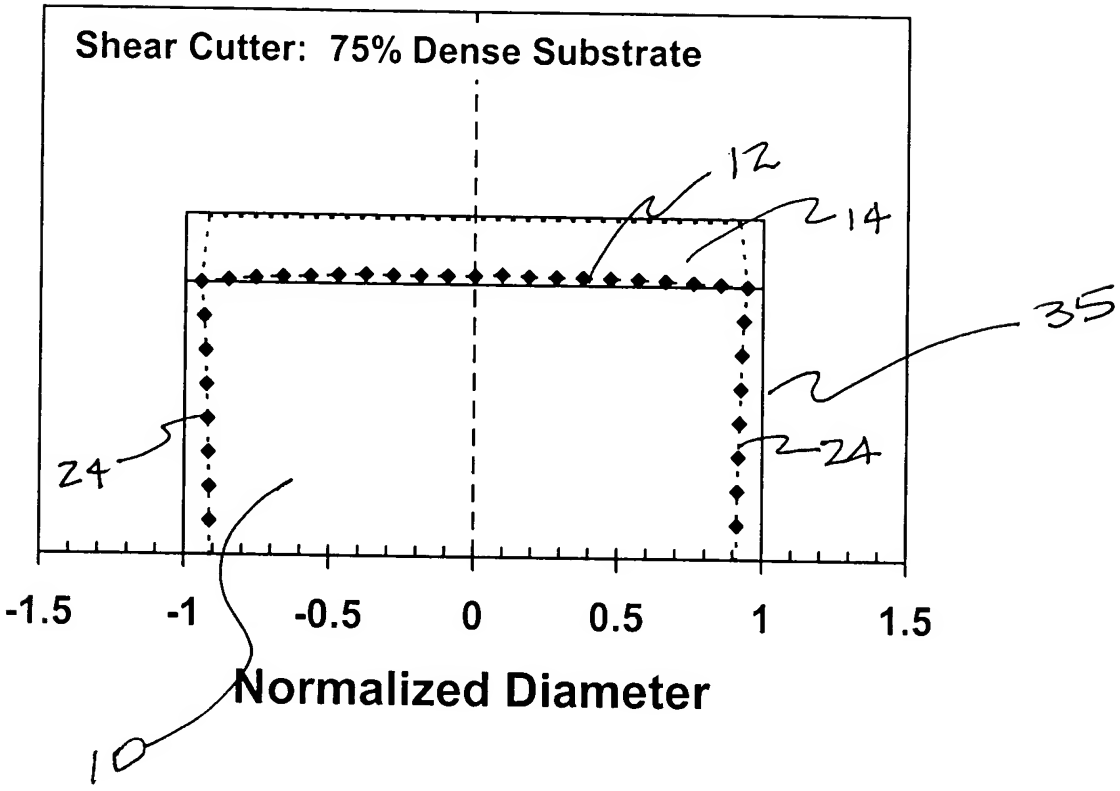
Shear Cutter: 75% Dense Substrate
12
14
35
24
24
-1.5
-1
-0.5
0
0.5
1
1.5
Normalized Diameter
10

Figure 4b

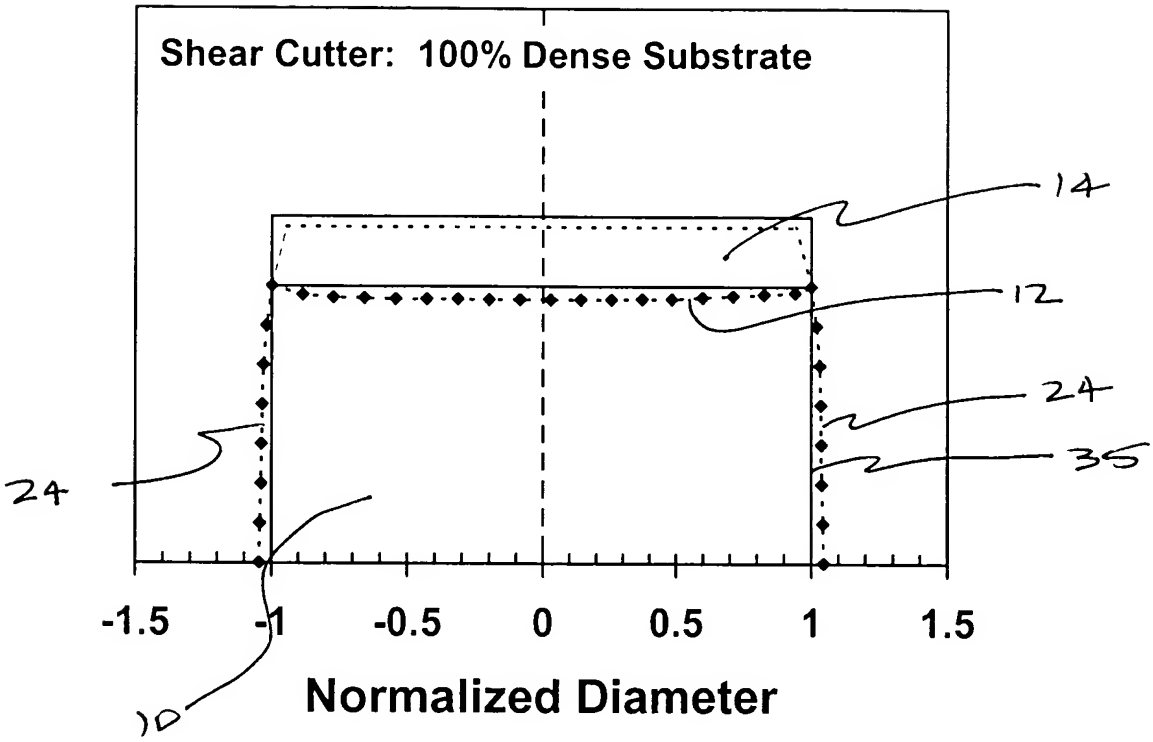
Shear Cutter: 100% Dense Substrate
14
12
24
35
24
-1.5
-1
-0.5
0
0.5
1
1.5
Normalized Diameter
10

Figure 4c

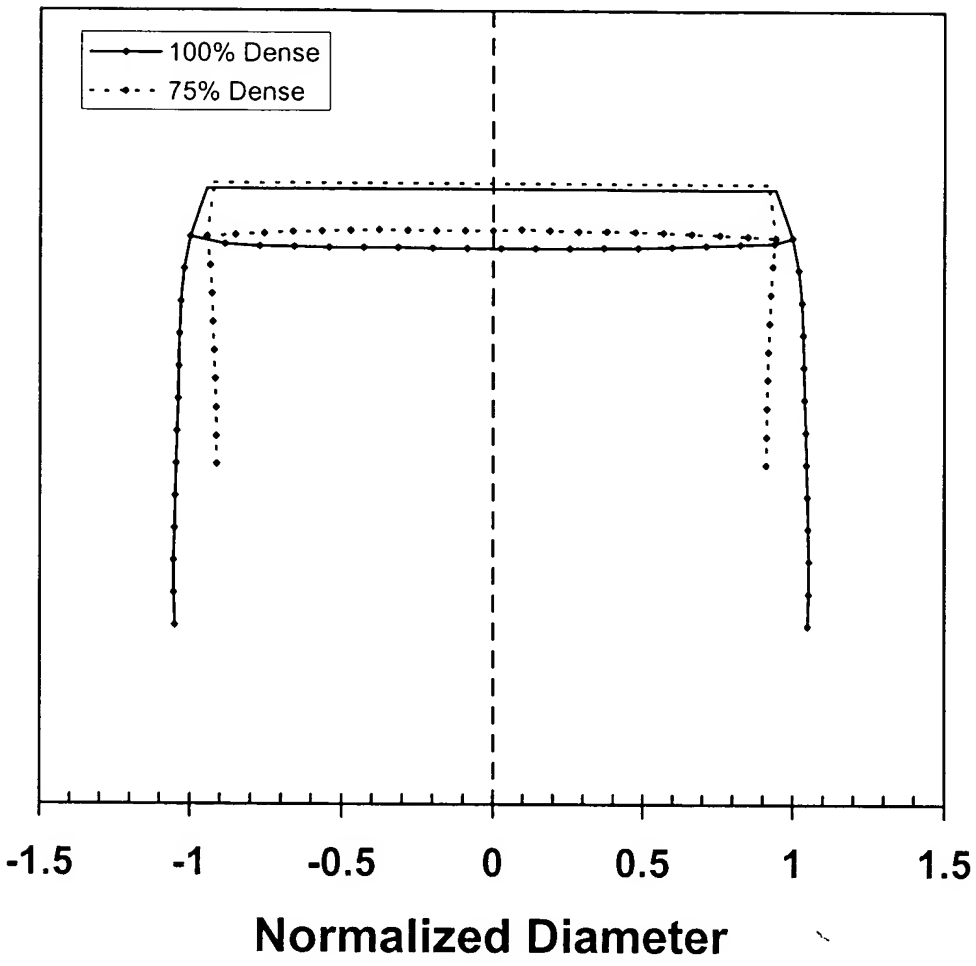
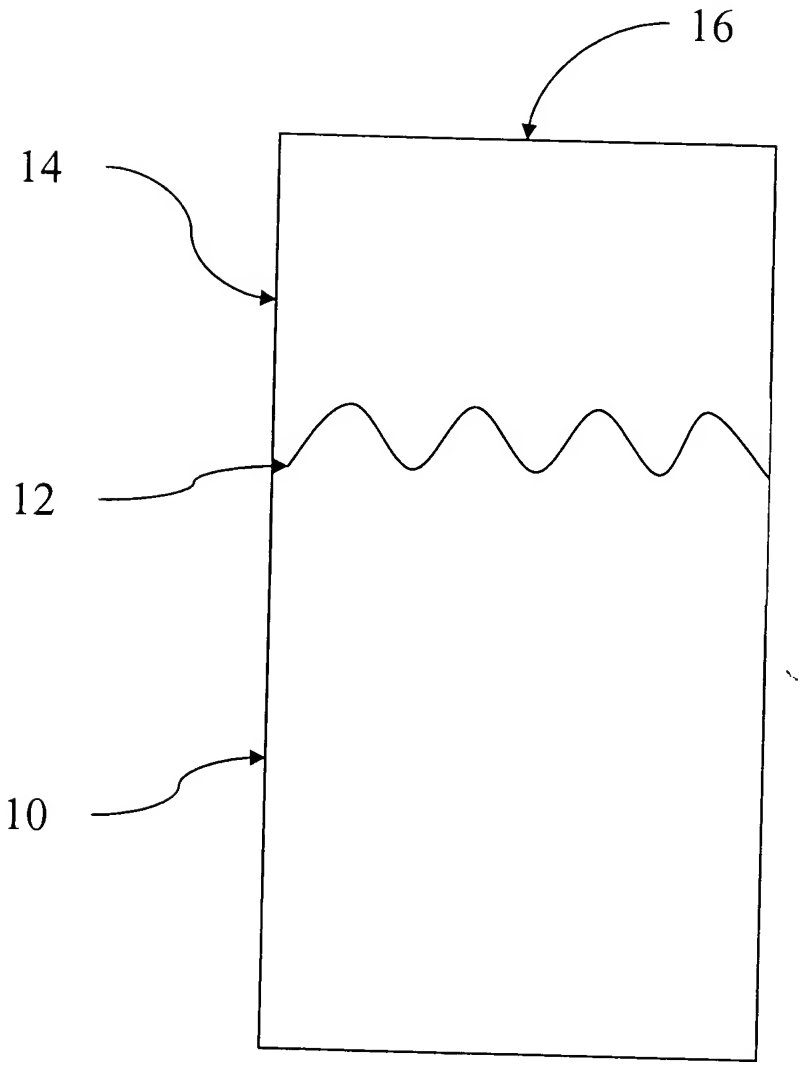
Figure 5